Platform: DBALL
Firmware: NISS01

Rev.: 20111215

Update Alert: Firmware updates are posted to the web on a regular basis. We recommend that you check for firmware and/or install guide updates prior to installing this product.

Installation Guide

The DBALL-NISS01 is an OEM transponder immobilizer override via data (no key required). Interfaces directly with the latest models of Nissan & Infinity ignition immobilizer systems to provide seamless, safe and secure system integration when adding an aftermarket remote starter.

Note: NISS01 is compatible with all key type Nissan and Infiniti vehicles (it does NOT cover knob or Push-to-Start (PTS) vehicles). See NISS 02 for knob and NISS 03 for PTS.

INFINITI NISSAN SUZUKI

IMPORTANT!

Ensure that the neutral safety relay is installed on this vehicle. The wire colors sometimes differ from model to model than what is specified in the installation guide. Please use the specific pin locations when making these connections and always test the wires as mentioned, instead of relying on the wire colors.

ALWAYS TEST THE INSTALLATION ONCE THE RELAY IS INSTALLED, TO ENSURE THE VEHICLE CANNOT BE STARTED IN GEAR.

Index

Vehicle Application Guide..... 02

Installation

Type 1..... 03
- Nissan Cube IPDM-E/R Wiring..... 05
- Nissan Armada, NV, & Titan IPDM-E/R Wiring..... 06
- Nissan Rogue, Sentra & Versa 2009-2011 IPDM-E/R Wiring..... 07
- Infiniti QX56, Nissan Frontier & Pathfinder, & Suzuki Equator IPDM-E/R Wiring..... 08
- Nissan Versa 2012 IPDM-E/R Wiring..... 09
- Locating the IPDM-E/R in the Vehicle (Type 1)..... 10
- Auto Headlamp Shutoff Connection Types..... 11

Type 2..... 12
- Nissan Navara & Pathfinder IPDM-E/R Wiring..... 14
- Nissan Qashqai IPDM-E/R Wiring..... 15
- Nissan X-Trail IPDM-E/R Wiring..... 16
- Locating the BCM & IPDM-E/R in the Vehicle (Type 2)..... 17

Type 3..... 18
- Nissan Juke IPDM-E/R Wiring..... 19
- Locating the BCM & IPDM-E/R in the Vehicle (Type 3)..... 20

Programming

Module Programming & Reset..... 21
Features & Options List.....
Features Programming..... 22

LED Diagnostics & Troubleshooting..... 23

Limited One-Year Consumer Warranty..... 24

TECHNICAL SUPPORT / INFORMATION

XPRESSKIT **web resources:**
www.xpresskit.com
www.directechs.com

† Infiniti, Nissan & Suzuki are registered trademarks and property of their respective companies.

Directed ELECTRONICS, INC.

© 2011 Directed Electronics. All rights reserved.

Vehicle Application Guide

Vehicles	2012	2011	2010	2009	2008	2007	2006	2005	2004	2003	Option #: Door Lock Type (see Feature Prog. section)	AV-Parking Lights Control	DL-Arm Factory Security	DL-Disarm Factory Security	DL-Door Lock Control	DL-Door Unlock	DL-Driver Priority Unlock	DL-Trunk / Hatch Release	FOB-Control of aftermarket alarm with OEM remote	PK-Immobilizer Bypass-Data No Key Req'd	RS-Tach / RPM Output	SS-Entry Monitoring ALL Door Pins	SS-Entry Monitoring Driver Door Pin	SS-Entry Monitoring Hood Pin	SS-Entry Monitoring Trunk/Hatch Pin	ST-Brake Status (foot brake)	ST-Hand Brake Status	ST-Ignition Status
Infiniti																												
FX35					1	1	1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
FX35									1	1	Off									•						•	•	
FX45					1	1	1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
FX45									1	1	Off									•						•	•	
G35							1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
G35									1	1	Off									•						•	•	
G35 Coupe						1	1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
G35 Coupe									1	1	Off									•						•	•	
Q45							1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
QX56					1	1	1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
QX56									1		Off									•						•	•	
Nissan	**12**	**11**	**10**	**09**	**08**	**07**	**06**	**05**	**04**	**03**																		
350Z									1	1	Off									•						•	•	
Altima							1	1			2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Armada		1	1	1	1	1	1	1			2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Armada									1		Off									•						•	•	
Cube			1	1							2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Frontier		1	1	1	1	1	1	1			2	•			•	•			D	•	•	•	D	•		•	•	D
JUKE		3									2	•	•	•	•	•	•		D	•	•	•	D	•	•	•	•	D
Maxima							1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
Maxima									1		Off									•						•	•	
Murano						1	1	1			2	•			•	•	•	•	D	•	•	•	D	•	•	•	•	D
Murano									1	1	Off									•	•	•	D	•	•	•	•	D
NAVARA			2	2	2	2	2	2			1	•	•	•	•	•		•	D	•	•	•	D	•	•	•	•	D
NV	1										2	•			•	•			D	•	•	•	D	•	•	•	•	D
Pathfinder			1	1	1	1	1	1			2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Pathfinder (EU)			2	2	2	2					1	•	•	•	•	•	•		D	•	•	•	D	•	•	•	•	D
QASHQAI			2	2	2	2					1	•	•	•	•	•		•	D	•	•	•	D	•	•	•	•	D
Quest				1	1	1	1	1			1	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Quest									1		Off									•						•	•	
Rogue		1	1	1	1						2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Sentra		1	1	1	1	1					1	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Titan		1	1	1	1	1	1	1			1	•			•	•			D	•	•	•	D	•		•	•	D
Titan									1		Off									•						•	•	
Versa		1	1	1	1	1					1	•			•	•		•	D	•	•	•	D	•	•	•	•	D
Xterra			1	1	1	1	1	1			2	•			•	•		•	D	•	•	•	D	•	•	•	•	D
X-Trail			2	2	2	2					1	•	•	•	•	•	•		D	•	•	•	D	•	•	•	•	D
Suzuki	**12**	**11**	**10**	**09**	**08**	**07**	**06**	**05**	**04**	**03**																		
Equator		1	1	1							2	•			•	•			D	•	•	•	D	•		•	•	D

Legend:

EU: European Vehicle
D: Data-to-Data (D2D) only
•: D2D and W2W

AV: Audio & Visual
DL: OE Door Lock & Alarm Controls
FOB: Sync CAN Interface w /FOB Remote

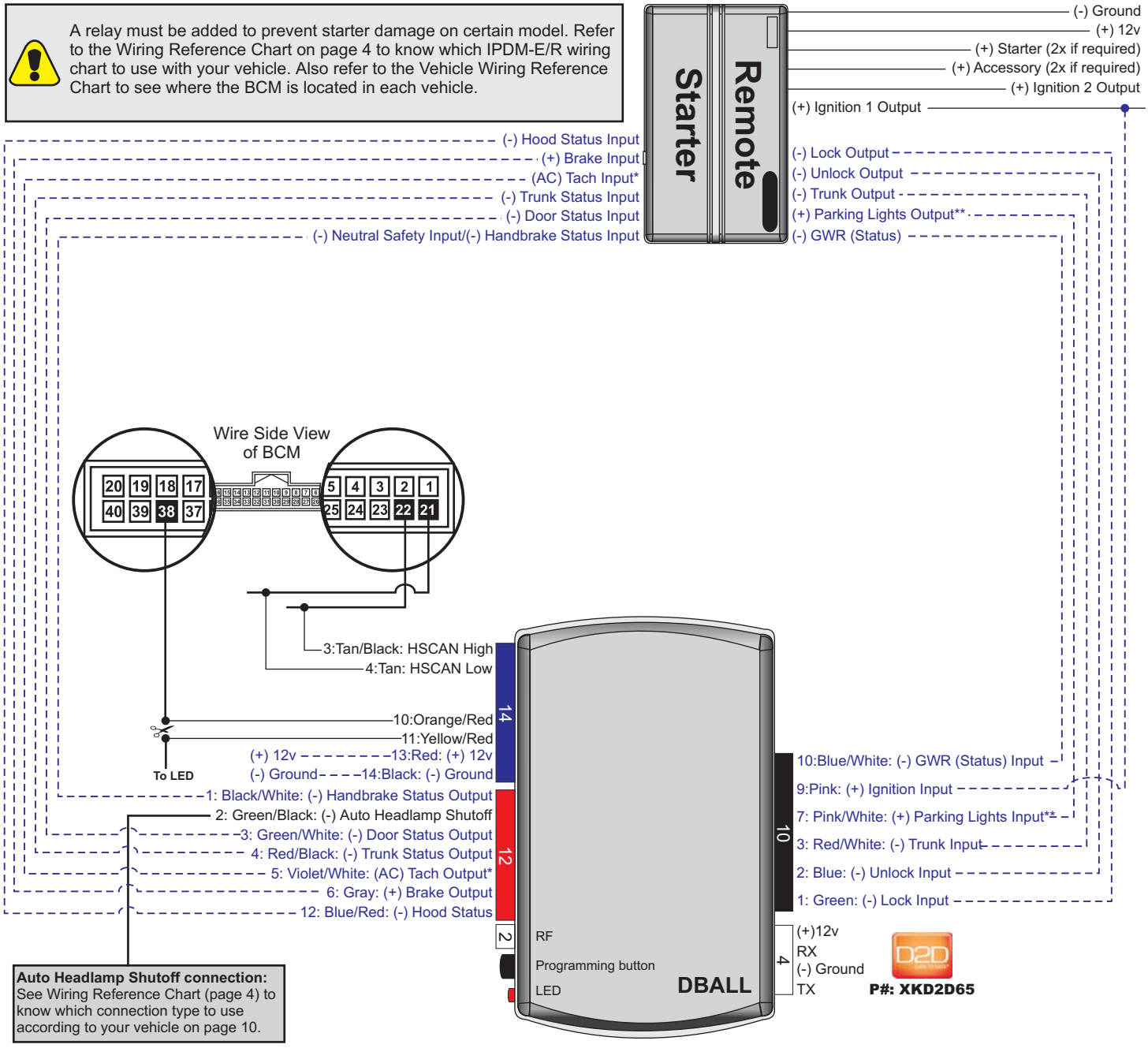
PK: Transponder & Immobilizer Override
RS: Engine Start & Status

SS: Entry Point Status-Security
ST: Status

© 2011 Directed Electronics. All rights reserved.

Installation Type 1

A relay must be added to prevent starter damage on certain model. Refer to the Wiring Reference Chart on page 4 to know which IPDM-E/R wiring chart to use with your vehicle. Also refer to the Vehicle Wiring Reference Chart to see where the BCM is located in each vehicle.



This installation type does **NOT** control the OEM alarm.
See feature 3 of the Feature and Option List to disable the OEM alarm and avoid issues.

---- Not required in D2D mode.

* Tach wire is an optional connection required on some remote starters, which do not support a tach signal in D2D.

** Parking Lights **MUST** be W2W in Viper/Python/Clifford 4X02/5X02 platform systems, This platform does not support D2D parking light message.

Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked.
With the exception of the OBII Diagnotistic plug, all connectors are displayed from the wire side.

© 2011 Directed Electronics. All rights reserved.

Vehicle Wiring Reference Chart for Type 1

Vehicles Compatibility		CAN Wires Information		Autolights OFF Information			Security LED Information			IPDM-E/R Information
Vehicle	Years	CAN HIGH Wire Color OBDII Pin 6 BCM Pin 22	CAN LOW Wire Color OBDII Pin 14 BCM Pin 21	Autolight OFF at BCM Pin	Autolight OFF at BCM Wire Color	Autolight Connection Type (p.11)	Security LED at BCM Pin	Security LED at BCM Wire Color	BCM Location	IPDM-E/R (Relay required to prevent starter damage)
Infiniti										
FX35	2006-08	Blue	Pink	33	Green	2	38	Green/Orange	Driver kick panel	*Not needed*
FX35	2003-05	Blue	Red	33	Green	2	38	Green/Orange	Driver kick panel	*Not needed*
FX45	2006-08	Blue	Pink	33	Green	2	38	Green/Orange	Driver kick panel	*Not needed*
FX45	2003-05	Blue	Red	33	Green	2	38	Green/Orange	Driver kick panel	*Not needed*
G35	2005-06	Blue	Pink	33	Blue	2	38	Green/Orange	Driver kick panel	*Not needed*
G35	2003-04	Blue	Red	33	Blue	2	38	Green/Orange	Driver kick panel	*Not needed*
G35 Coupe	2005-07	Blue	Pink	33	Blue	2	38	Green/Orange	Driver kick panel	*Not needed*
G35 Coupe	2003-04	Blue	Red	33	Blue	2	38	Green/Orange	Driver kick panel	*Not needed*
Q45	2005	Blue	Pink	14	Yellow	1	65	Green	Driver kick panel	*Not needed*
Q45	2006	Blue	Pink	14	Red/White	1	65	Green	Driver kick panel	*Not needed*
QX56	2005-08	Blue	Pink	33	Red/Yellow	2	38	Green/Orange	Right of steering column	2009 & up, see page 8
QX56	2004	White	Red	33	Red/Yellow	2	38	Green/Orange	Right of steering column	2009 & up, see page 8
Nissan										
350Z	2003-04	Blue	Red	33	Green	2	55	Green/Orange	Driver kick panel	*Not needed*
Altima	2005-06	Blue	Pink	33	Green/Yellow	2	38	Green/Orange	Left of steering column	*Not needed*
Armada	2005-11	Blue	Pink	33	Red/Yellow	2	38	Green/Orange	Right of steering column	2009 & up, see page 6
Armada	2004	White	Red	33	Red/Yellow	2	38	Green/orange	Right of steering column	2009 & up, see page 6
Cube	2009-10	Blue	Pink	*Not needed*			38	Red/Yellow	Left of steering column	2009 & up, see page 5
Frontier	2005-11	Blue	Pink	*Not needed*			38	Green	Right of steering column	2009 & up, see page 8
Maxima	2005-08	Blue	Pink	33	Green/Yellow	1	38	Green/Orange	Left of steering column	*Not needed*
Maxima	2004	Blue	Yellow	33	Green/Yellow	1	38	Green/Orange	Left of steering column	*Not needed*
Murano	2004-07	Blue	Yellow	33	Green/Yellow	1	38	Green/orange	Right of steering column	*Not needed*
Murano	2003	Blue	Yellow	33	Green/Yellow	1	55	Green/orange	Right of steering column	*Not needed*
NV	2012	Blue	Pink	*Not needed*			38	Green	Behind instrument cluster	2009 & up, see page 6
Pathfinder	2005-10	Blue	Pink	33	Gray	1	38	Green	Right of steering column	2009 & up, see page 8
Quest	2005-09	Blue	Pink	33	Red/Yellow	1	38	Green/Orange	Behind center upper dash triangular cover	*Not needed*
Quest	2004	Blue	Yellow	33	Red/Yellow	1	38	Green/Orange	Behind center upper dash triangular cover	*Not needed*
Rogue	2008-11	Blue	Pink	*Not needed*			38	Black	Behind glove box	2009 & up, see page 7
Sentra	2007-11	**Blue***	**Pink***	*Not needed*			38	Light Blue	Over steering column	2009 & up, see page 7
Titan	2005-11	Blue	Pink	33	Gray	2	38	Green/Orange	Right of steering column	2009 & up, see page 6
Titan	2004	White	Red	33	Green/Yellow	1	38	Green/Orange	Right of steering column	2009 & up, see page 6
Versa	2007-11	Blue	Pink	*Not needed*			38	Red	Behind glove box	2009 & up, see page 7
Versa	2012	Blue	Pink	*Not needed*			38	Green	Driver kick panel	See page 9
Xterra	2005-10	Blue	Pink	*Not needed*			38	Green	Right of steering column	*Not needed*
Suzuki										
Equator	2009-11	Blue	Pink	*Not needed*			38	Green	Right of steering column	2009 & up, see page 8

* Those wires can also be found behind cluster in a 40-pin white connector, pink and blue wires are side by side.

© 2011 Directed Electronics. All rights reserved.

Nissan Cube IPDM-E/R Wiring

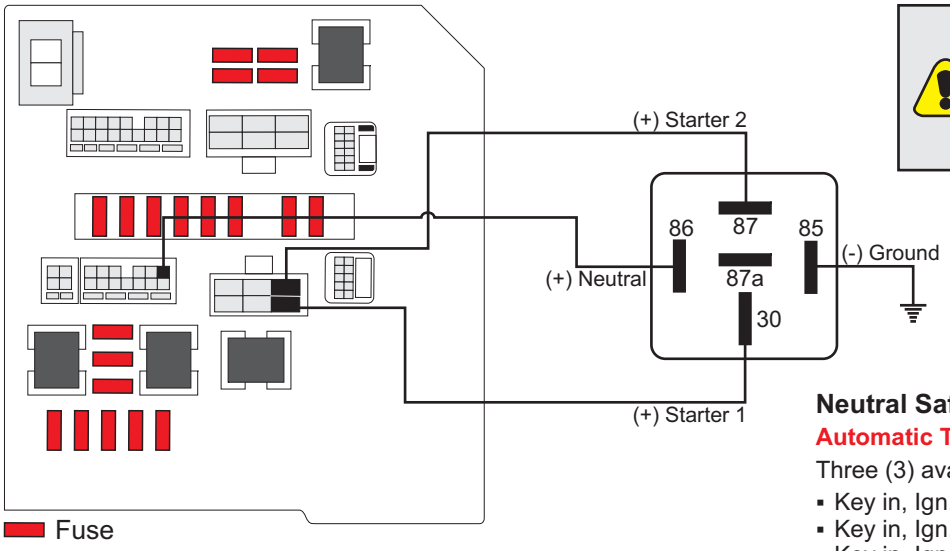
Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Cube	Brown	Light Blue	Brown

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

Automatic Transmission



This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

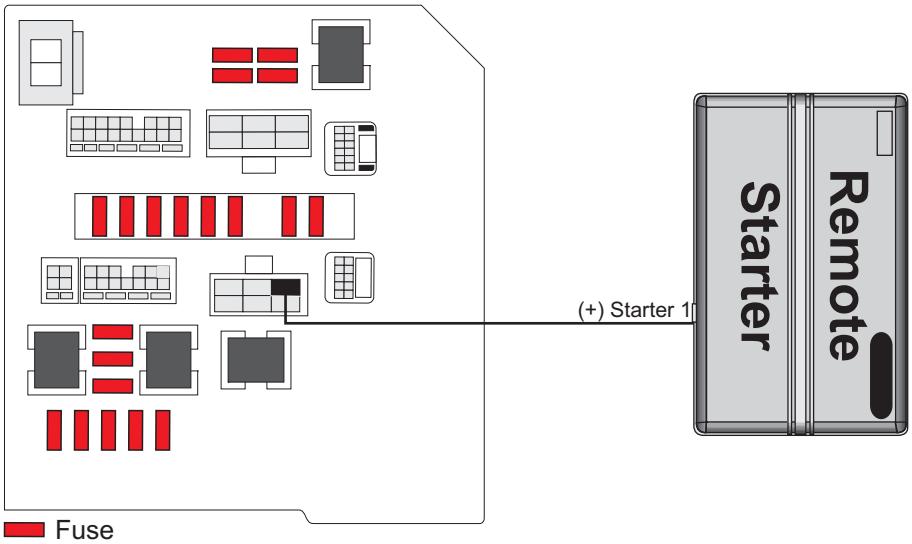
Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Manual Transmission



Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

Nissan Armada, NV, & Titan IPDM-E/R Wiring

Note that the IPDM may look different on your vehicle, but the connections remain the same.

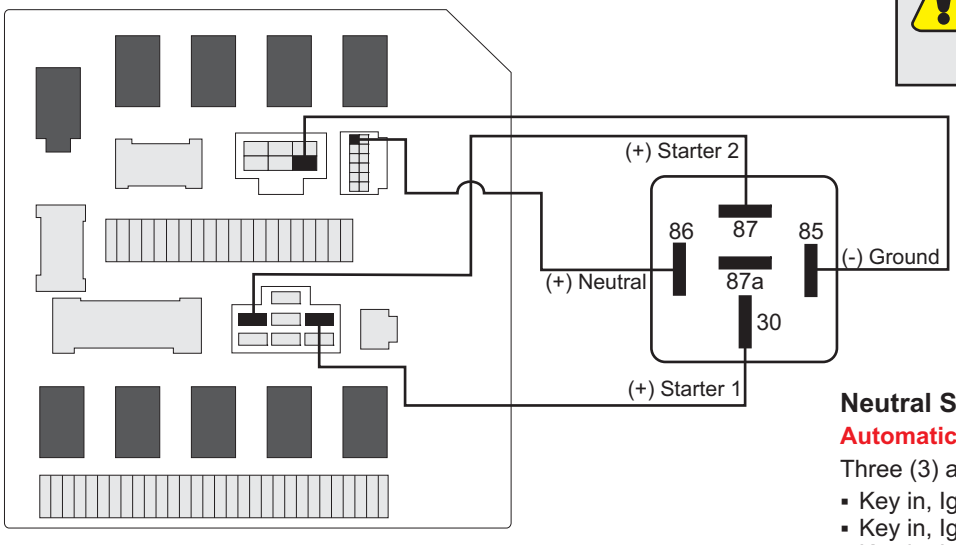
Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Armada	White/Red	Brown	Black/Red
NV	White	Yellow	Brown
Titan	White/Red	Brown	Black/Red

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

Automatic Transmission

This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It is also **EXTREMELY IMPORTANT** to protect the relay from water exposure.



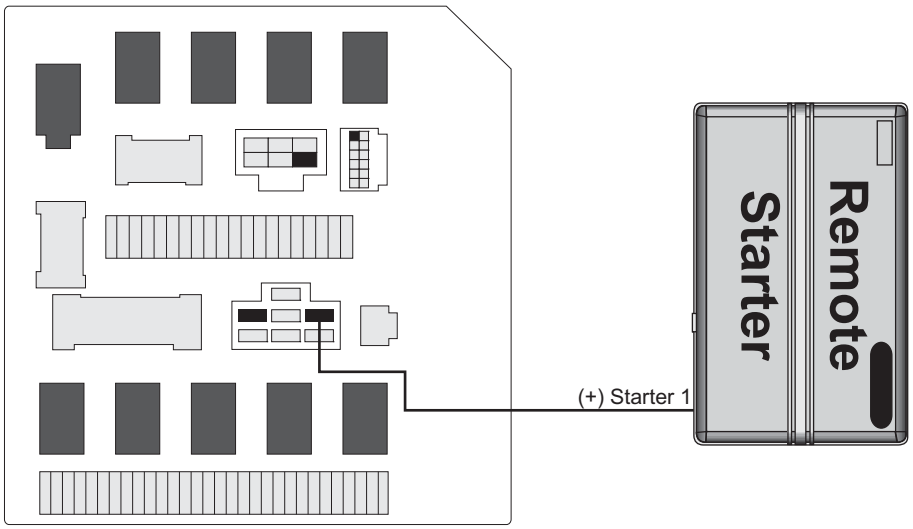
Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Manual Transmission



Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

Nissan Rogue, Sentra & Versa 2009-2011 IPDM-E/R Wiring

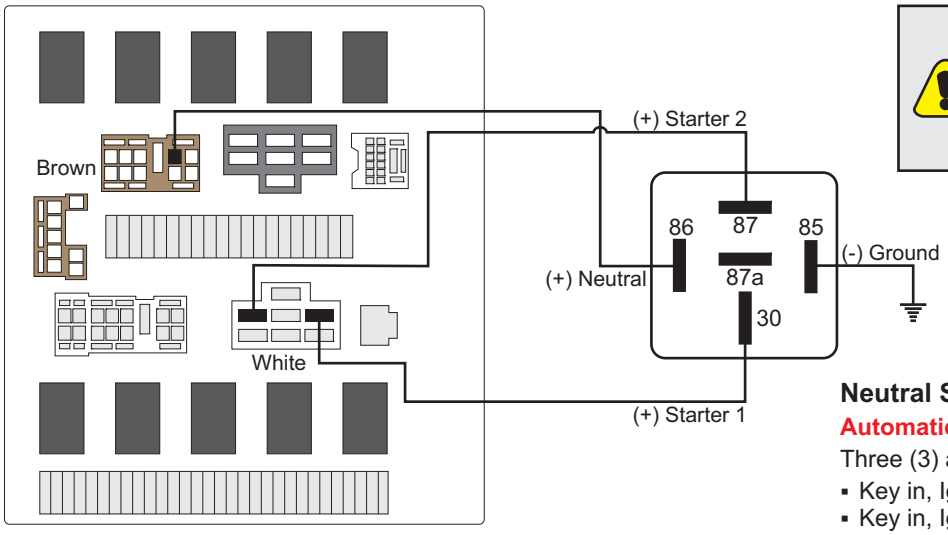
Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Rogue	Orange	Red	Yellow
Sentra	White	White/Red	Brown/Red
Versa 2009-2011	Red	White	Brown

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

Automatic Transmission



This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

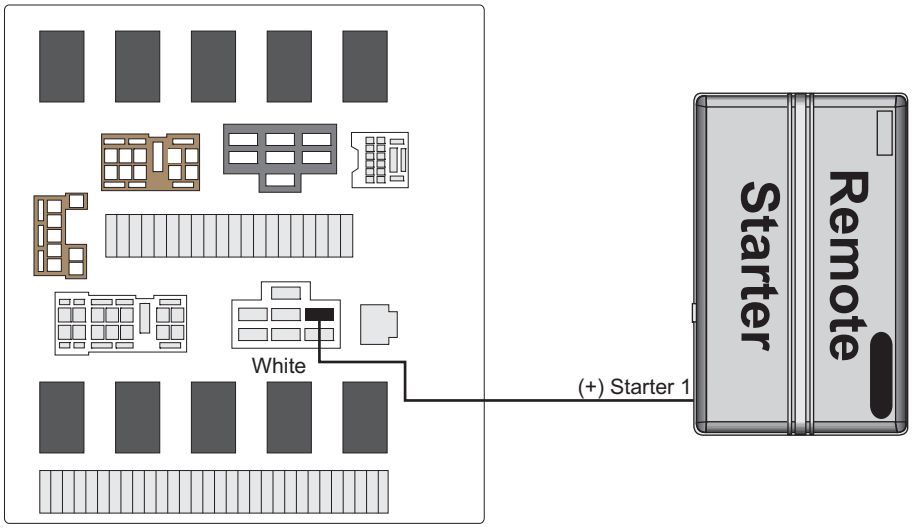
Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Manual Transmission



Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

Infiniti QX56, Nissan Frontier & Pathfinder, & Suzuki Equator IPDM-E/R Wiring

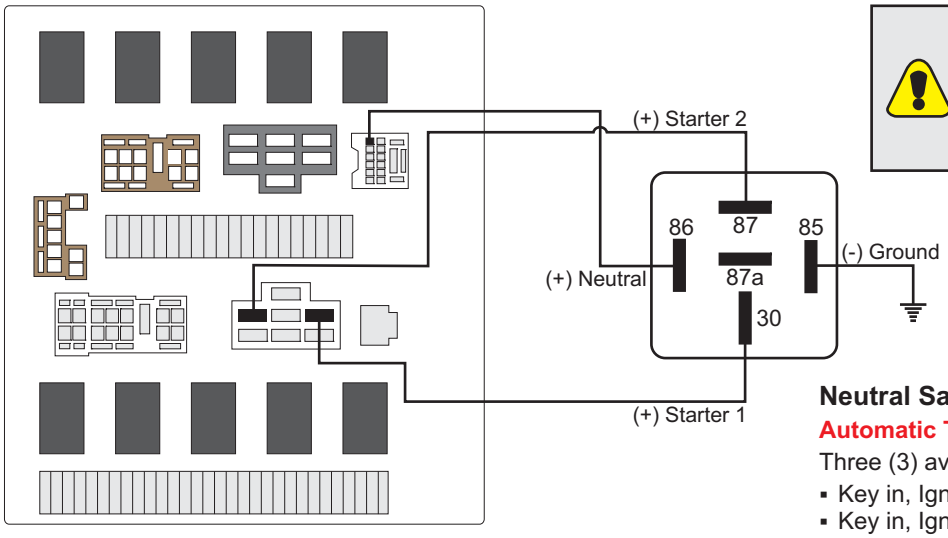
⚠ Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Infiniti			
QX56	White/Red	Brown	Black/Red
Nissan			
Frontier	Gray	White	Red
Navara	Gray	White	Brown
Pathfinder (US)	White	Gray	Red
Suzuki			
Equator	Gray	White	Red

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

Automatic Transmission



⚠ This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

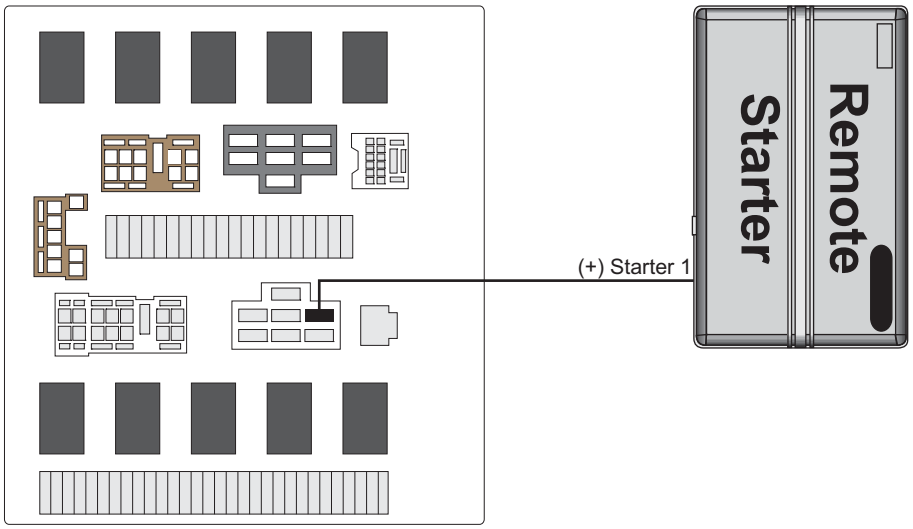
Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Manual Transmission



Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

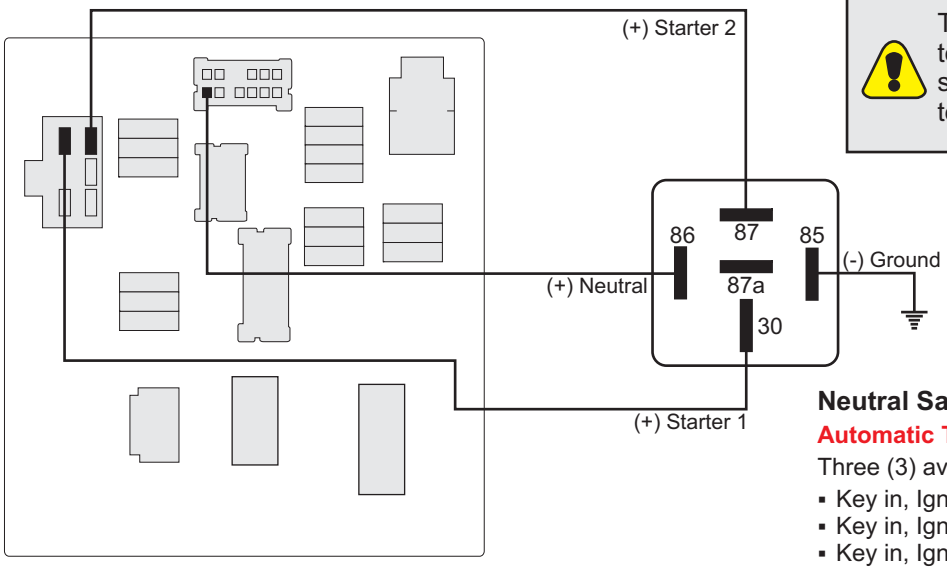
- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

Nissan Versa 2012 IPDM-E/R Wiring

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Versa 2012	White	Red	Brown

Automatic Transmission



This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It is also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

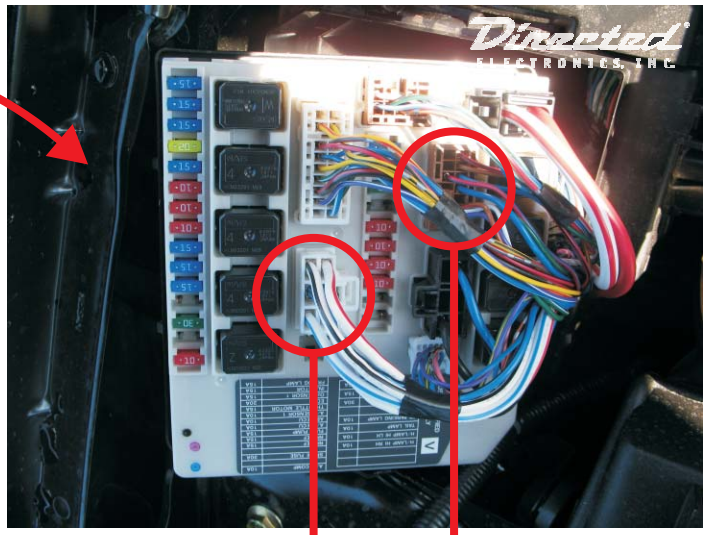
© 2011 Directed Electronics. All rights reserved.

Locating the IPDM-E/R in the Vehicle (Type 1)

Refer to page 4 for the Vehicle Wiring Reference Chart to determine which colors correspond to your vehicle, as they may vary.

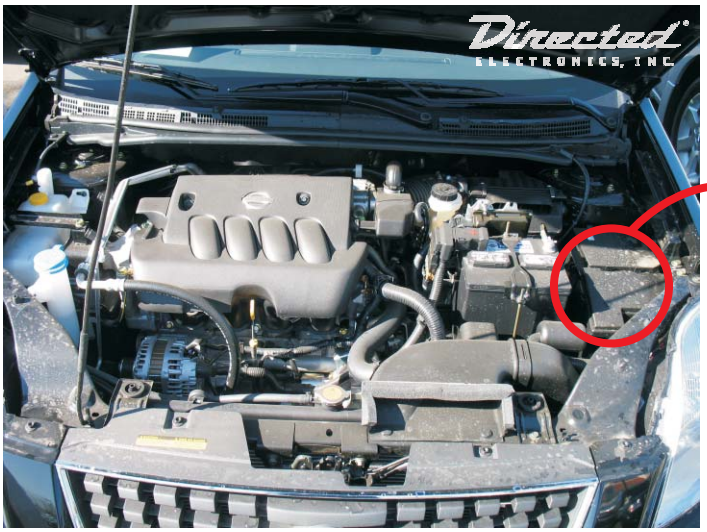
Under the Hood - Passenger Side

IPDM-E/R

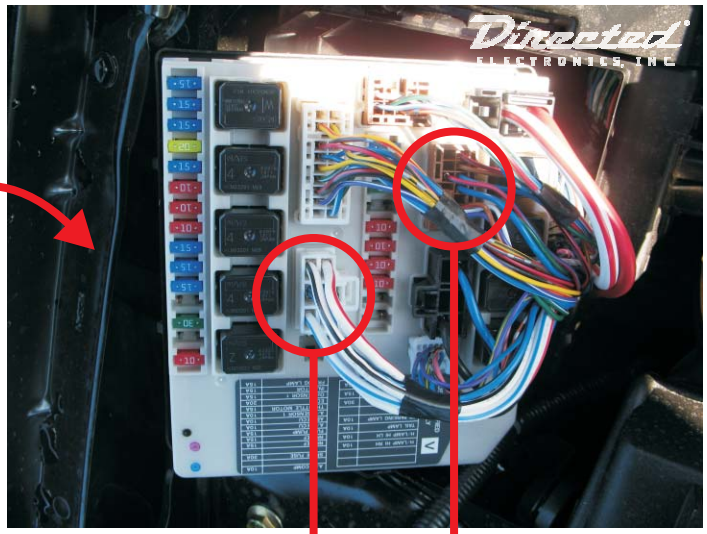


or

Under the Hood - Driver Side



IPDM-E/R

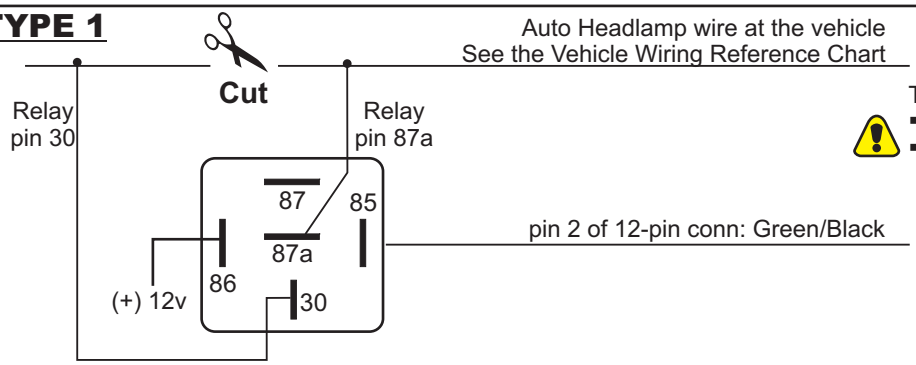


© 2011 Directed Electronics. All rights reserved.

Auto Headlamp Shutoff Connection Types

See the Vehicle Wiring Reference Chart on page 4.

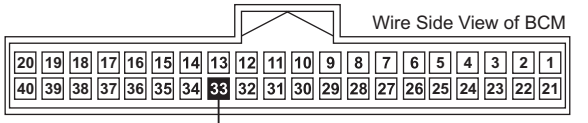
TYPE 1



The Auto Headlamp wire will show:
- **Ground:** when the switch is at AUTO.
- **Open circuit:** when the switch is at any other position.

TYPE 2

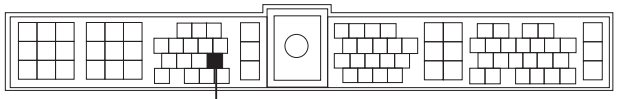
Connector diagram for all vehicles (except Infiniti Q45)



pin 2 of 12-pin conn: Green/Black

Auto Headlamp wire at the vehicle
See the Vehicle Wiring Reference Chart

Connector diagram for Infiniti Q45



pin 2 of 12-pin conn: Green/Black

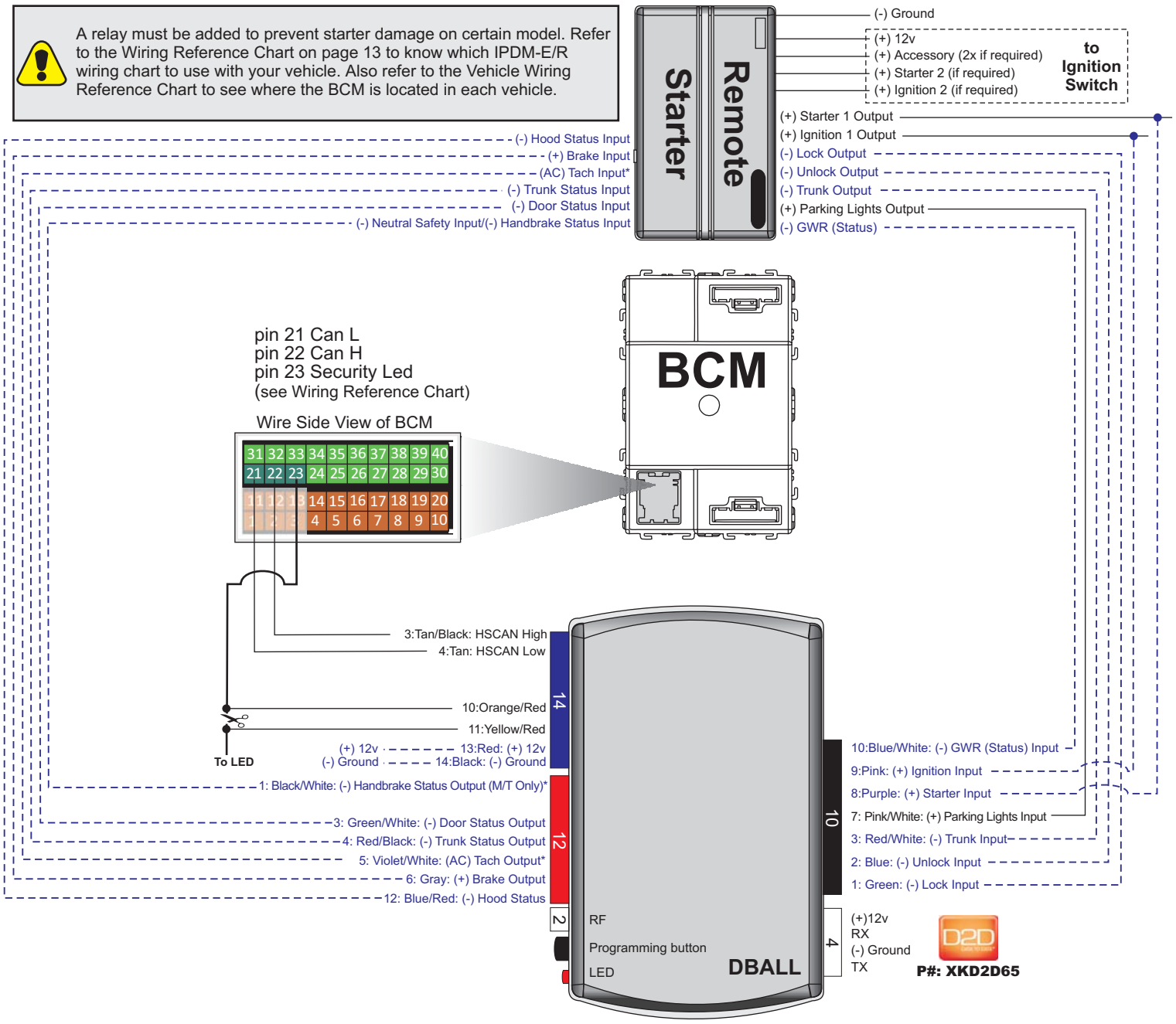
Auto Headlamp wire at the vehicle
See the Vehicle Wiring Reference Chart

The Auto Headlamp wire will show Ground when the switch is at any position other than AUTO.

© 2011 Directed Electronics. All rights reserved.

Installation Type 2

A relay must be added to prevent starter damage on certain model. Refer to the Wiring Reference Chart on page 13 to know which IPDM-E/R wiring chart to use with your vehicle. Also refer to the Vehicle Wiring Reference Chart to see where the BCM is located in each vehicle.



This installation type does **NOT** control the OEM alarm.
See feature 3 of the Feature and Option List to disable the OEM alarm and avoid issues.

---- Not required in D2D mode.

*These wires are an optional connection required on some remote starters, which do not support these signals in D2D.

Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked. With the exception of the OBII Diagnotistic plug, all connectors are displayed from the wire side.

© 2011 Directed Electronics. All rights reserved.

Vehicle Wiring Reference Chart for Type 2

Vehicles Compatibility		CAN Wires Information		Security LED Information			IPDM-E/R Information
Vehicle	Years	CAN HIGH Wire Color OBDII Pin 6 BCM Pin 22	CAN LOW Wire Color OBDII Pin 14 BCM Pin 21	Security LED at BCM		BCM Location	IPDM-E/R (Relay required to prevent starter damage)
				Pin	Wire Color		
Nissan							
Navara	2005-10	Blue	Pink	23	Green	Right of steering column	2009 & up, see page 14
Pathfinder (EU)	2007-10	Blue	Pink	23	Green	Right of steering column	2009 & up, see page 14
Qashqai	2007-10	Blue	Pink	23	Light Blue	Behind glove box	2009 & up, see page 15
X-Trail	2006-09	Blue	Pink	23	Violet	Behind glove box	2009 & up, see page 16

© 2011 Directed Electronics. All rights reserved.

Nissan Navara & Pathfinder IPDM-E/R Wiring

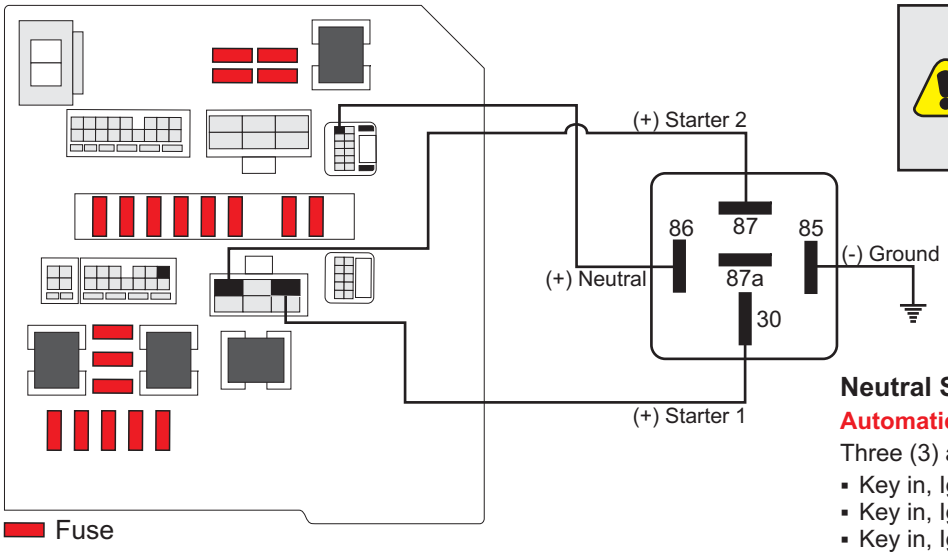
⚠ Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Navara	White	Gray	Brown
Pathfinder (EU)	White	Gray	Brown

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

Automatic Transmission



⚠ This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

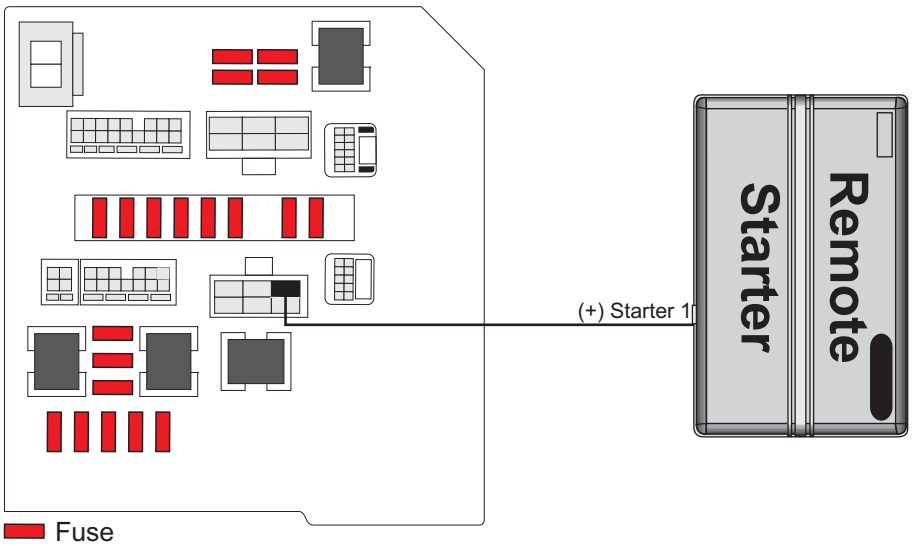
Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Manual Transmission



Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

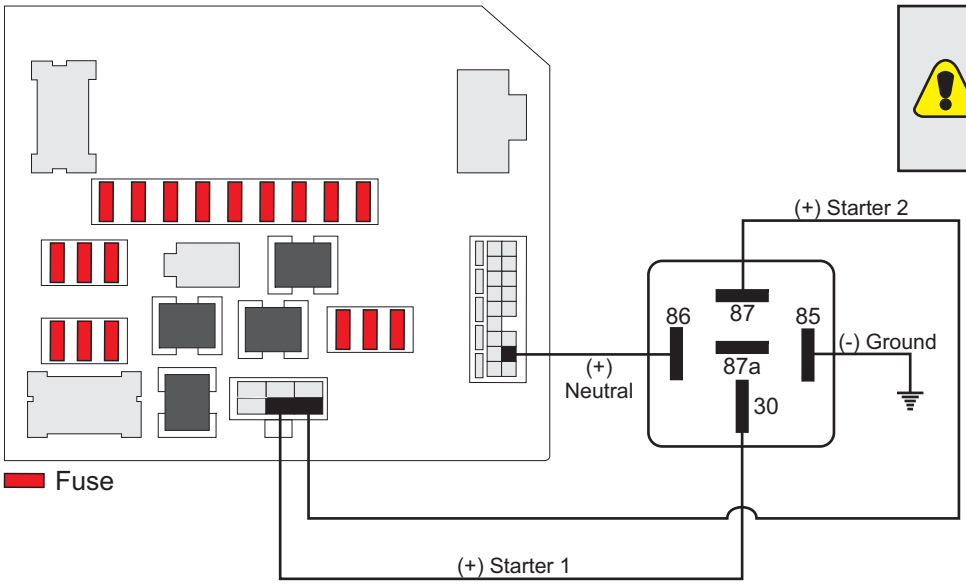
Nissan Qashqai IPDM-E/R Wiring

Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
Qashqai	Black/Red	Pink	White/Black (A/T) or Red/Black (M/T)

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.



This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

Neutral Safety Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

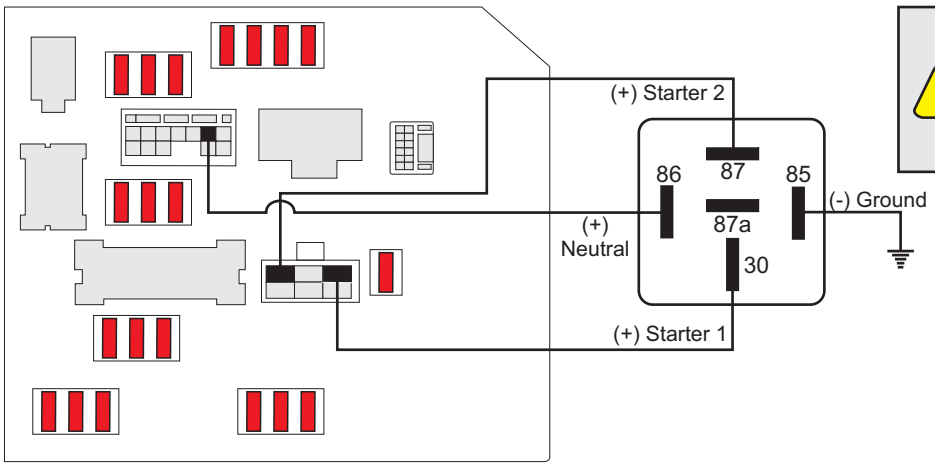
Nissan X-Trail IPDM-E/R Wiring

⚠ Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	Starter 1	Starter 2	Neutral
Nissan			
X-Trail	Orange	Red	Yellow

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.



⚠ This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.

Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

© 2011 Directed Electronics. All rights reserved.

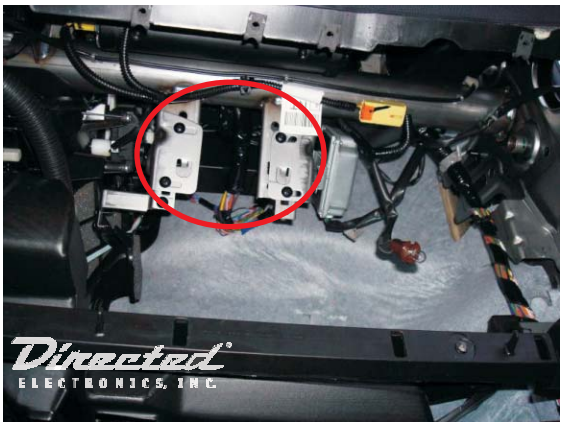
Locating the BCM and IPDM-E/R in the Vehicle (Type 2)

Refer to page 13 for the Vehicle Wiring Reference Chart to determine which colors correspond to your vehicle, as they may vary.

Locating the BCM in the Vehicle

Nissan Frontier, Pathfinder, Navara & Xterra (right of steering column)

Nissan Quasquai & Xtrail (behind glovebox)



Locating the IPDM E/R in the Vehicle

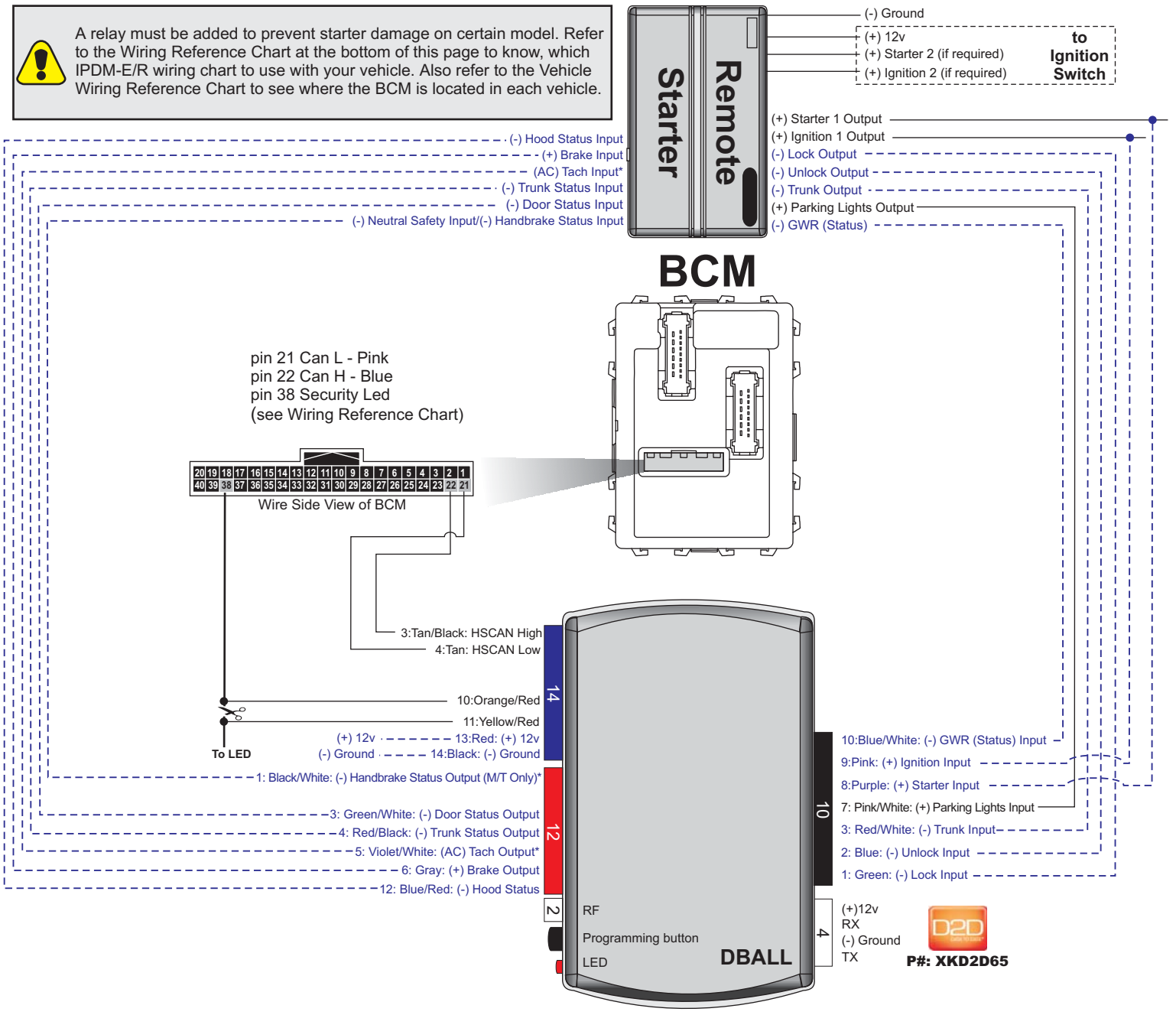
Nissan Quasquai & Xtrail (engine compartment driver side)

Nissan Frontier, Pathfinder, Navara & Xterra (engine compartment passenger side)

© 2011 Directed Electronics. All rights reserved.

Installation Type 3

A relay must be added to prevent starter damage on certain model. Refer to the Wiring Reference Chart at the bottom of this page to know, which IPDM-E/R wiring chart to use with your vehicle. Also refer to the Vehicle Wiring Reference Chart to see where the BCM is located in each vehicle.



Vehicles Compatibility		CAN Wires Information		Security LED Information			IPDM-E/R Information
Vehicle	Years	CAN HIGH Wire Color OBDII Pin 6 BCM Pin 22	CAN LOW Wire Color OBDII Pin 14 BCM Pin 21	Security LED at BCM		BCM Location	IPDM-E/R (Relay required to prevent starter damage)
				Pin	Wire Color		
Nissan							
Juke	2011	Blue	Pink	38	Red	Left of steering column	See pages 19 & 20

---- Not required in D2D mode.

*These wires are an optional connection required on some remote starters, which do not support these signals in D2D.

Wires are listed by pin numbers. This display is not representative of connector pin layouts, which are often stacked. With the exception of the OBII Diagnotistic plug, all connectors are displayed from the wire side.

© 2011 Directed Electronics. All rights reserved.

Nissan Juke IPDM-E/R Wiring

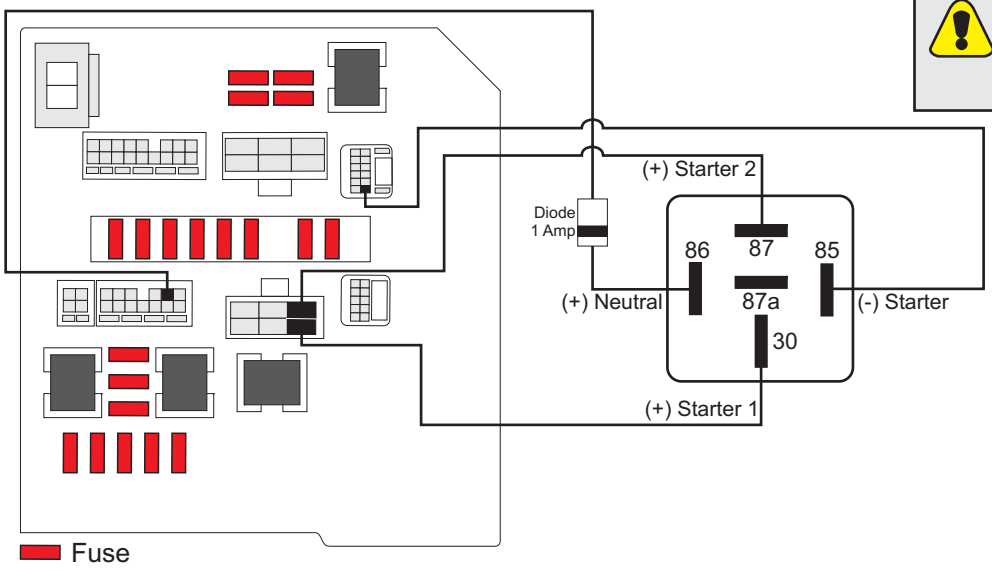
Note that the IPDM may look different on your vehicle, but the connections remain the same.

Vehicles	(+) Starter 1	(+) Starter 2	(-) Starter	Neutral
Nissan				
Juke	Red	Gray	Light Blue	Brown

Component Location in the Vehicle

The IPDM-E/R wiring is located in the driver-side engine box.

This relay is **REQUIRED** in the installation to avoid permanent damage to the vehicle starter. It also **EXTREMELY IMPORTANT** to protect the relay from water exposure.



Neutral Safety Wire Voltage Test (Multimeter)

Automatic Transmission

Three (3) available stages:

- Key in, Ign. OFF: 0 volt.
- Key in, Ign. ON, Transmission in Park or Neutral: 12 volts.
- Key in, Ign. ON, Transmission NOT in Park or Neutral: 0 volt.

Starter Wire Voltage Test (Multimeter)

Automatic & Manual Transmission

Two (2) available stages:

- Key in, Starter motor NOT engaged: 0 volt.
- Key in, Starter motor engaged: 12 volts.

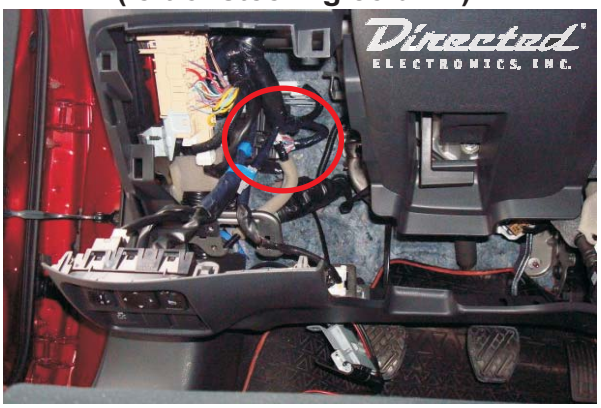
© 2011 Directed Electronics. All rights reserved.

Locating the BCM and IPDM-E/R in the Vehicle (Type 3)

Refer to page 18 for the Vehicle Wiring Reference Chart to determine which colors correspond to your vehicle, as they may vary.

Locating the BCM in the Vehicle

Nissan Juke
(left of steering column)



Locating the IPDM E/R in the Vehicle

Nissan Juke
(engine compartment driver side)

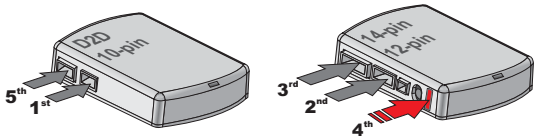
© 2011 Directed Electronics. All rights reserved.

Module Programming

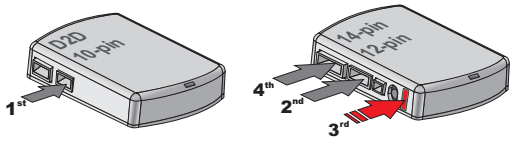
⚠ Refer to the LED Diagnostics section on page 23 for more information and for troubleshooting purposes.

1 Please ensure that the vehicle is in a safe location and cannot move forward during programming. For vehicles equipped with a manual transmission, ensure the gearshift lever is in the neutral position.

2a **If using in D2D**: Connect the 10-pin, 12-pin & 14-pin harnesses to the module. Press & hold the programming button, then connect the 4-pin D2D harness.



2b **If using in W2W**: Connect the 10-pin & 12-pin harnesses to the module. Press & hold the programming button, then connect the 14-pin harness to the module.



3 Wait until the LED turns ON orange then release the programming button. The LED turns ON red.

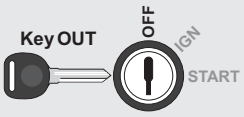
4 Insert the key into the ignition barrel and turn it to the IGN position.

If the module has not been programmed, the LED flashes throughout the process. This can take up to 15 seconds.

If the module is programmed, the LED turns OFF when the ignition is turned ON.

5 The LED turns ON solid green for 3 seconds, then turns OFF once the module has been successfully programmed.

6 Turn the key to the OFF position and remove it from the ignition barrel.



Module reset will be done automatically upon programming.

© 2011 Directed Electronics. All rights reserved.

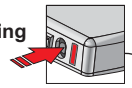
Feature and Option List

⚠ In case the door lock does not work with the recommended type, switch to the other option.

#	Feature	Description	Options
1	Door lock	Determines whether the door lock feature is enabled for Europeran or North American vehicles. When set to OFF, the remote starter door lock wires must be connected in the car.	**OFF***
			On - Type 1 (EU)
			On - Type 2 (CAN+US)
2	Parking light control through CAN	When set to OFF, the remote starter parking lights wire must be connected in the car.	**OFF***
			ON
3	OEM alarm	When set to OEM enable, the OEM alarm of the vehicle is activated.	No action
			OEM enable*
			OEM disable

*** Default option.**

Feature Programming



To enter feature programming routine
- For vehicles that are not Push-to-Start (PTS), use the key to turn the ignition ON, then OFF. For PTS vehicles, press the button twice to turn the ignition ON, then press it once more to turn it OFF.
- Within 5 sec, press and HOLD the programming button. The orange LED turns ON after 3 seconds. Release the programming button.
- The green LED starts flashing slowly one time to indicate the feature number is 1. After a short delay, the red LED flashes rapidly to indicate the current option of feature 1. It repeats until next action happens.

Changing feature options
- Press the lock/arm or unlock/disarm button on aftermarket transmitter to change the option of the selected feature.
- The red LED flashes rapidly the number of times equal to the current option number. After a short delay, the green LED flashes slowly the number of times to indicate the current feature. It repeats until next action happens.

Accessing another feature
- Press and release the programming button a number of times to advance from the current feature to the next desired feature.
- The green LED flashes slowly the number of times equal to the feature number. After a short delay, the red LED flashes rapidly to indicate the current option of the current feature. It repeats until next action happens.

When the maximum number of feature or option is reached, the LED will starts flashing again from the first feature or option.

Once a feature is programmed
- Another feature(s) can be programmed.
- The feature programming can be exited.

Exiting feature programming
- No activity for 30 seconds; after 30 seconds, the orange LED will turn ON for 2 seconds to confirm exiting.
  OR
- Press and HOLD the programming button for 3 seconds. After 3 seconds, the orange LED will turn ON for 2 seconds to confirm exiting.

© 2011 Directed Electronics. All rights reserved.

LED Diagnostics and Troubleshooting

LED	Status	Description	Troubleshooting
Module Programming			
Off	Off	Module has no power.	Make sure the 4-pin D2D harness is connected or that the 12 Volt is present between the red and black wires. If the 12 Volt is present, the module may be defective.
Solid	Solid red	Waiting on the completion of a programming sequence, or the ignition is turned on.	This can also mean there is an issue with the data bus wiring. Make sure the connections to the data bus are correct by referring to the wiring diagram.
Flashes	Flashes red continuously	Programming in process, do not turn key OFF.	Normal operation.
Flashes 1x	Flashes red once	The module is not programmed.	Turn the key off and start again the programming.
Solid x3 secs	Solid green for 3 seconds	Module has been successfully programmed.	Normal operation.
Active Ground While Running			
Flashes	Flashes green continuously	Ground out (GWR) is active	Normal operation.
Off	Off	Normal operation.	The Ground While Running (status) wire is incorrectly connected. Refer to the wiring diagram to make the right connections.
Inactive Ground While Running			
Flashes 1x	Flashes green once	Lock command has been received.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.
Flashes 2x	Flashes green twice	Unlock command has been received.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.
Flashes 3x	Flashes green 3 times	Trunk release command has been received.	If it does not flash, the bypass module did not receive the signal. Verify the connections between the bypass and the remote starter module.

© 2011 Directed Electronics. All rights reserved.

Limited One-Year Consumer Warranty

For a period of ONE YEAR from the date of purchase of a Directed Electronics remote start or security product, Directed Electronics. (“DIRECTED”) promises to the original purchaser, to repair or replace with a comparable reconditioned piece, the security or remote start accessory piece (hereinafter the “Part”), which proves to be defective in workmanship or material under normal use, provided the following conditions are met: the Part was purchased from an authorized DIRECTED dealer; and the Part is returned to DIRECTED, postage prepaid, along with a clear, legible copy of the receipt or bill of sale bearing the following information: consumer’s name, address, telephone number, the authorized licensed dealer’s name and complete product and Part description.

This warranty is nontransferable and is automatically void if the Part has been modified or used in a manner contrary to its intended purpose or the Part has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defect in materials or construction.

TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED HEREBY DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING DEALERS OR INSTALLERS. IN THE EVENT OF A CLAIM OR A DISPUTE INVOLVING DIRECTED OR ITS SUBSIDIARY, THE PROPER VENUE SHALL BE SAN DIEGO COUNTY IN THE STATE OF CALIFORNIA. CALIFORNIA STATE LAWS AND APPLICABLE FEDERAL LAWS SHALL APPLY AND GOVERN THE DISPUTE. THE MAXIMUM RECOVERY UNDER ANY CLAIM AGAINST DIRECTED SHALL BE STRICTLY LIMITED TO THE AUTHORIZED DIRECTED DEALER’S PURCHASE PRICE OF THE PART. DIRECTED SHALL NOT BE RESPONSIBLE FOR ANY DAMAGES WHATSOEVER, INCLUDING BUT NOT LIMITED TO, ANY CONSEQUENTIAL DAMAGES, INCIDENTAL DAMAGES, DAMAGES FOR THE LOSS OF TIME, LOSS OF EARNINGS, COMMERCIAL LOSS, LOSS OF ECONOMIC OPPORTUNITY AND THE LIKE. NOTWITHSTANDING THE ABOVE, THE MANUFACTURER DOES OFFER A LIMITED WARRANTY TO REPLACE OR REPAIR AT DIRECTED’S OPTION THE PART AS DESCRIBED ABOVE.

Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights and you may also have other rights that vary from State to State. DIRECTED does not and has not authorized any person or entity to create for it any other obligation, promise, duty or obligation in connection with this Part.920-0007 07-06

This Interface kit / Data Bus Interface part has been tested on the listed vehicles. Other vehicles will be added to the select vehicle list upon completion of compatibility testing. Visit website for latest vehicle application guide. DISCLAIMER: Under no circumstances shall the manufacturer or the distributors of the bypass kit / data bus interface part(s) be held liable for any consequential damages sustained in connection with the part(s) installation. The manufacturer and it’s distributors will not, nor will they authorize any representative or any other individual to assume obligation or liability in relation to the interface kit / data bus interface part(s) other than its replacement. N.B.:Under no circumstances shall the manufacturer and distributors of this product be liable for consequential damages sustained in connection with this product and neither assumes nor authorizes any representative or other person to assume for it any obligation or liability other than the replacement of this product only.

PROTECTED BY U.S. PATENTS: 5,719,551; 6,011,460 B1 *;6,243,004 B1; 6,249,216 B1; 6,275,147 B1; 6,297,731 B1; 6,346,876 B1; 6,392,534 B1; 6,529,124 B2; 6,696,927 B2; 6,756,885 B1; 6,756,886 B2; 6,771,167 B1; 6,812,829 B1; 6,924,750 B1; 7,010,402 B1; 7,015,830 B1; 7,031,826 B1; 7,046,126 B1; 7,061,137 B1; 7,068,153 B1; 7,205,679 B1; **CDN. PATENT:** 2,320,248; 2,414,991; 2,415,011; 2,415,023; 2,415,027; 2,415,038; 2,415,041; 2,420,947; 2,426,670; 2,454,089 **EUROPEAN PATENT:**1,053,128 **PAT. PENDING:** 2,291,306; **MADE IN CANADA**

© 2011 Directed Electronics. All rights reserved.